UDC 621-729 (First Reprint JULY 1982) IS : 5664 - 1970

Indian Standard

SPECIFICATION FOR LUBRICATING CONNECTORS

(Reaffirmed 2001)
(Reaffirmed 2013)

Lubricating Equipment Sectional Committee, EDC 63; Panel for Lubricating Nipples, Adaptors and Connectors, EDC 63/P-1 [Ref: Doc: EDC63 (1535)]

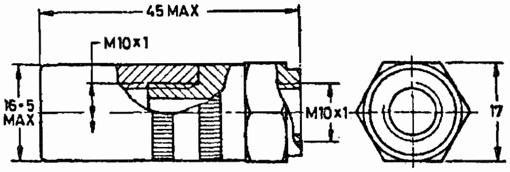
1. Scope — Requirements for four types of lubricating connectors for use in industrial plants and automobiles.

2. Types

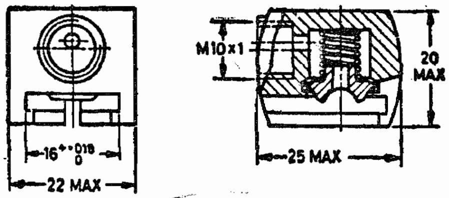
Type A — Hydraulic connector,
Type B — Hook-on connector,
Type C — Thrust-on connector, and
Type D — Push type connector.

3. Overall Dimensions

3.1 The threads on the connectors shall have ISO metric profile conforming to IS : 4218-1967*.



All dimensions in millimetres.
TYPE A HYDRAULIC CONNECTOR



All dimensions in millimetres.
TYPE B HOOK-ON CONNECTOR

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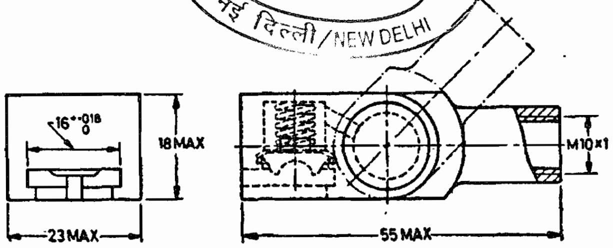
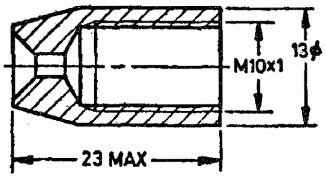


All dimensions in millimetres.
TYPE C THRUST-ON CONNECTOR



All dimensions in millimetres.
TYPE D PUSH CONNECTOR

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*ISO metric screw threads in 6 parts.

Adopted 9 June 1970	© February 1971, ISI	Price [illegible] Gr 2

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4. Material — The connectors shall be manufactured from steel conforming to the property class 4·8 of IS : 1367-1967*.

5. Designation — A connector of Type A, shall be designated as:

Connector A IS : 5664

6. Workmanship and Finish

6.1 The lubricating connectors shall be finished smooth and shall be free from burrs, cracks and other manufacturing defects. The threads shall be cleanly formed and shall be free from imperfections.

6.2 The connectors shall be plated with zinc (*see* IS : 1573-1960†) or cadmium (*see* IS : 1572-1968‡). Surfaces of the connectors which are in sliding contact with grease nipples shall be hardened to a minimum value of 550 *HV* (*see* IS : 1501-1968§).

7. Marking — To be marked with the type, manufacturer's name or trade-mark.

8. Packing — Shall be packed in accordance with the best prevalent trade practice or as specified by the purchaser.

9. Sampling — Unless otherwise agreed to between the purchaser and the supplier, the sampling plan as given in Appendix A shall be followed.

10. Tests — The lubricating connectors other than Type D, when applied on the appropriate mating grease nipples, shall not leak from any joint or sealing surface when subjected to a pressure of 150 kgf/cm^2 with a No. 2 consistency grease. For Type D connectors, there shall be no leakage from sealing surface in operation.

11. ISI Certification Marking — Details available with the Indian Standards Institution.

APPENDIX A

(*Clause* 9)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1. Scale of Sampling

A-1.1 *Lot* — In any consignment all the lubricating connectors of the same size and type and manufactured under essentially similar conditions shall constitute a lot.

A-1.2 For ascertaining the conformity of the lot to the requirements of this specification tests shall be carried out for each lot separately. The number of lubricating connectors to be selected at random from each lot shall be in accordance with col 1 and 2 of Table 1. To ensure the randomness of selection, IS : 4905-1968‖ shall be followed.

TABLE 1 SAMPLE SIZE AND PERMISSIBLE NUMBER OF DEFECTIVES

Lot Size (1)	Sample Size (2)	Permissible Number of Defectives (3)	Sub-Sample Size (4)	Permissible Number of Defectives (5)
Up to 100	8	0	3	0
101 ,, 150	13	0	5	0
151 ,, 300	20	0	8	0
301 ,, 500	32	1	13	0
501 ,, 1 000	50	2	20	0
1 001 ,, 3 000	80	3	32	1
3 001 and above	125	5	50	1

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*Technical supply conditions for threaded fasteners.

†Specification for zinc plating.

‡Specification for electroplated coatings of cadmium on iron and steel (*first revision*).

§Method for Vickers hardness test for steel (*first revision*).

‖Methods for random sampling.

A-2. Number of Tests and Criteria for Conformity

A-2.1 The connectors selected according to **A-1.2** shall be examined for dimensions, and workmanship and finish. Any connector failing to satisfy the requirements for any one or more of the characteristics shall be declared defective.

A-2.1.1 The lot shall be declared conforming to the requirements for the characteristics given in **A-2.1** if the number of connectors found defective is less than or equal to the corresponding number given in col 3 of Table 1.

A-2.2 In case the lot is found satisfactory according to **A-2.2.1**, a sub-sample of size given in col 4 of Table 1 shall be drawn and subjected to test given in **10**. Any connector failing to meet the requirement shall be considered defective.

A-2.2.1 The lot shall be declared conforming to the requirements if the number of connectors found defective according to **A-2.2** is less than or equal to the corresponding number given in col 5 of Table 1.

EXPLANATORY NOTE

Lubricating connectors are essential fittings screwed on to the delivery tube of grease guns. They engage on lubricating nipples and prevent leakage of the lubricant during delivery into the grease nipples.

This standard deals with the requirements for four types of connectors, namely, 'Hydraulic', 'Hook-on', 'Thrust-on' and 'Push' type of connectors. Hydraulic type connectors are used for servicing conical head grease nipples conforming to IS : 4009-1967 and IS : 4974-1968. They snap on to the tip of the grease nipples where it is held by three hydraulic jaws during the delivery of lubricant, and easily released with a slight lateral movement once the delivery operation is over. The 'hook-on' and 'thrust-on' type connectors are used for servicing button-head grease nipples conforming to IS : 4009-1967. They have double flanged shoes which slide on the heads of button-head grease nipples. The 'thrust-on' connectors incorporates a swivel joint to facilitate servicing of awkardly placed nipples. 'Push' type connectors are used to service grease nipples, small, Type D conforming to IS : 4974-1968. The seal between the grease nipple and the connector is achieved by manual in-line pressure on the nipple head.

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